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General National
Services Capital
Administration Region Washington, DC 20407

Date : July 26, 1985
Reply to : Arthur J. Carlucci
Attn of :
Subject: R. F. Shielding/Prototype

STAT : (NBPO)

Transmitted herewith for your information and review is a copy of Centex letter of July 22, 1985, with attachment, relative to the above referenced subject.

It is my understanding that ARC will begin a review and test of the prototype on or about July 30, 1985.

Sincerely,


Arthur J. Carlucci
Project Manager

AJC:nj

Attachment

cc: Gary Lee

Everett Medling

STAT

ANC



CENTEX CONSTRUCTION COMPANY, INC.

POST OFFICE BOX 427 • MERRIFIELD, VA. 22116 • TELEPHONE (703) 698-6886

July 22, 1985

PLEASE ADDRESS REPLY TO:

P.O. BOX 6510
McLEAN, VA 22106-6510
Phone: (703) 448-6810

Arthur J. Carlucci, Project Manager
New Building Project Field Office
Room 3E40, Headquarters Building
Central Intelligence Agency
Washington, D.C. 20505

Re: CIA Headquarters Expansion
Bid Package 2
Langley, Virginia
Contract No. GS-11B-19066

Subj: RF Shielding
Specification Section 01170
Progress Report

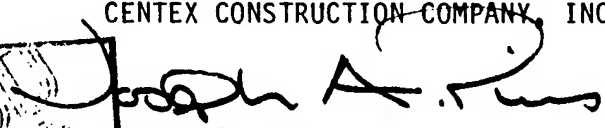
Gentlemen:

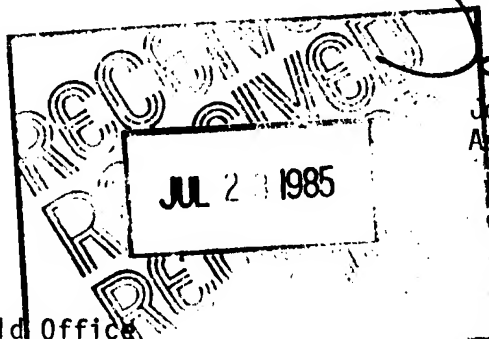
Attached for your review and comments is a copy of R & B Enterprises' progress report of the shielding work dated July 15, 1985. The following issues are covered in the letter.

1. We understand that you are aware of the problems pertaining to the effectiveness of the door shielding and the conductive caulking details, and these details are under review by GSA and SH&G. We await the outcome of these issues.
2. We would like to arrange a meeting with appropriate people and R & B Enterprises to discuss all aspects of the proto-type test procedures, methods, etc. Please advise us of your schedule for testing.
3. The issue pertaining to the painting of the Window Frame Clamping System is presented in our Value Change Proposal No. P-30.

Very truly yours,

CENTEX CONSTRUCTION COMPANY, INC.


Joseph A. Pius
Assistant Project Manager



JAP:sap

Enclosure

cc: Merrifield Office
D. Robison

R & B ENTERPRISES

DIVISION OF EMC SCIENCE CENTER

20 CLIPPER ROAD • WEST CONSHOHOCKEN, PA 19428-2721 • (215) 825-1960

TWX 510 660-8120

July 15, 1985

Mr. John Milhausen
Project Manager
Centex Construction Co., Inc.
P. O. Box 6510
McLean, VA 22106

Dear John:

Once again, it was a pleasure to visit with Darrell at the expansion site on July 9, 1985. The prototype was very nearly complete on the 9th, and Darrell indicated that the probable turnover date (to ~~USA~~) would be on July 15. I delayed documenting my visit until talking with Darrell this A.M. when he informed me that he expected to turn the prototype over to ~~USA~~ ~~DEA~~ this week and that the testing company would be the Atlantic Research Corporation. Darrell indicated that Atlantic Research would be at the test site on the 17th but did not know if that was the official start date. I indicated to Darrell that I would stay in close touch and would be available.

During my visit on the 9th and subsequent inspection of the prototype building, I became somewhat concerned with the effectiveness of the main door shielding provision (along with Darrell). The actual design calls for the use of a pressure sensitive gasket (.125" X .5") applied to the door on three sides and the use of pressure sensitive gaskets on the door threshold. The following considerations must be addressed with respect to the door.

1. In order for the gasket to be effective, it must be compressed. ✓
The prints do not give door and door frame clearances. ✓ It is not clear that any gasket compression will be realized. ✓ Just observing the door closure indicates that gasket compression is unlikely. ✓
2. The top of the door utilizes a cutout to allow the door closer to operate. ✓ The gasket cannot be applied to the entire top of the door due to the cutout. ✓ If the gasket is applied around the lower portion of the cutout, then the gasket will not contact the door frame at all. ✓
3. The use of a pressure sensitive adhesive gasket raises the question as to how easy it will be to peel off or kick off as in the case of the door threshold. ✓

Other areas of concern relate to possible leaks around the window frame where it is not clear that the window screen is not painted under the frame. The wall area where conductive caulking is used is of some concern due to the characteristics of the caulk. The conductivity of the caulk will be affected by temperature extremes (expansion and contraction causing thin cracks).

WASHINGTON, DC AREA EXECUTIVE OFFICES (Government Programs) • (703) 920-5603

Mr. John Milhausen
July 15, 1985
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During my visit on the 9th, Darrell and I discussed the importance of test methods and instrumentation on the determination of prototype shielding effectiveness. At that time, we visited Gary Lee and asked who would be conducting the tests since it would be advantageous for Centex if R & B and the testing company sat down and discussed testing methods. Mr. Lee did not know who the testing company would be, but as I stated earlier, Darrell informed me that Atlantic Research will do the testing and will be at the site on July 17. This leaves no time for discussion nor the review of a test plan if one is available. Atlantic Research is indeed an excellent test laboratory, and I am sure that the tests will be run very efficiently. However, I would still like to talk over the testing with them. ✓

During the course of the visit, I transmitted several approved prints and reviewed a letter and specification requirements from Universal Shielding Corporation. The letter indicates that they do not approve of painting shielding channels and indicate that they utilize electrolytically deposited zinc. I concur completely with Universal. Their approach is completely sound.

I will be in touch with Darrell prior to the 17th.

Cordially,

LMC SCIENCE CENTER, INC.

Frederick L. Helene

Frederick L. Helene
Sr. Staff Consultant

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cc: Mr. Darrell Robison
Mr. Robert Goldblum